FUEL BURNING EQUIPMENT REGISTRATION

Form ARD-2

State of New Hampshire
Department of Environmental Services
Air Resources Division
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NEW HAMPSHIRE DEPARTMENT OF Environmental Services
Air Resources Division

I. EQUIPMENT INFORMATION

A. Boilers

Installation Description:_____
Date Designed:_____Date Installed:_____

Manufacturer:_____Model No:_____
Serial No: _____ Nameplate Rating: _____mmBtu/hr (input)
_____mmBtu/hr (output)
Burner Manufacturer:_____Model No:_____
Serial No: _____ Fuel Flow Rate:_____(gallons)(mcf) (tons)/hr
Type of Burner:

Gaseous Fuel: ___ Natural Gas ___ Propane ___ Other (specify): _____

Solid Fuel: ___ Cyclone ___ Pulverized (__ wet __ dry) ___ Spreader Stoker
___ Underfeed Stoker ___ Overfeed Stoker ___ Hand-Fired
___ Fly Ash Re-injection ___ Other (specify): _____

Liquid Fuel: ___ Pressure Gun ___ Rotary Cup ___ Steam Atomization
___ Air Atomization ___ Other (specify): _____
Fuel Temperature prior to injection _____ ^{o} F

Combustion Type:

___ Tangential Firing ___ Opposite end firing ___ Limited Excess Air Firing
___ Flue Gas Recirculation ___ Staged Combustion ___ Biased Firing
___ One End Only Firing ___ Other: _____

B. Internal Combustion Engine/Combustion Turbine

Installation Description:_____
Date Designed: _____ Date Installed: _____
Manufacturer: _____ Model No:_____
Serial No: _____Fuel Flow Rate: _____(gallons)(mcf)/hr
Engine HP Output Rating:_____ HP. Engine used for: _____

C. Fuel Supplier

Name and address: _____

D. Fuel Additives

Manufacturers name and address:_____
Specific Identification of Additive: _____
Consumption Rate: _____ gallons per 1000 gallons of fuel

II. OPERATIONAL INFORMATION

A. Fuel Usage (List each fuel utilized by each component for this device):

Liquid/Gaseous Fuels:

Comp.	Type	Sulfur %	Ash %	Max. Firing Rate (mmBtu/hr)	Annual Usage (gals, ft^3, tons)
_____	_____	___	___	_____	_____
_____	_____	___	___	_____	_____
_____	_____	___	___	_____	_____

Solid Fuels:

Comp.	Type	Btu/ Ton	% Mst.*	Max. Firing Rate (mmBtu/hr)	Annual Usage (tons)
_____	_____	_____	___	_____	_____
_____	_____	_____	___	_____	_____

* moisture percentage

B. Stack Information: (Provide information requested for each stack)

Inside Diameter: _____ ft. Discharge height above ground level: _____ ft
Exhaust Temp: _____^{o}F. Exhaust Flow: _____ ACFM
Exhaust Velocity: _____ feet per second. Stack Material _____
Identify other units on this stack: _____
Is unit equipped with multiple stacks? _____ (if "yes" provide above data for each)
Is stack monitoring used? _____ Describe: _____
Is Section 123 of CAA applicable? _____yes _____no
Stack Base Elevation: (feet above mean sea level): _____

C. Hours of Operation:

Hours/day: ____ Days/week: ____ Weeks/year: ____ Hours/year: ____
Seasonal Usage: Winter: ___% Summer: ___% Fall: ___% Spring: ___%
(Seasonal usage must add up to 100%)

III. DEVICE EMISSION DATA:

POLLUTANT	Actual (lbs/hr)	Potential (lbs/hr)	Actual (tons/yr)	Potential(tons/yr)

IV. POLLUTION CONTROL EQUIPMENT

A. Type of equipment: (Note: If process utilizes more than one control device, provide data for each device (use separate sheet if necessary)).

__ baffled settling chamber __ wide bodied cyclone
__ long cone cyclone __ irrigated long cone cyclone
__ multiple cyclone (___" dia.) __ carbon absorption
__ electrostatic precipitator __ irrigated electrostatic precipitator
__ spray tower __ absorption tower
__ venturi scrubber __ baghouse
__ afterburners(incineration) __ packed tower/column
__ selective catalytic reduction __ selective non-catalytic reduction
__ reburn __ other (specify): _____

B. Operation: (Note: If process emits more than one pollutant, provide data for each pollutant (use separate sheet if necessary)).

Pollutant Input Information

Pollutant	CAS #	Inlet Temp.	Norm. Rate (lbs/hr)	Max. Rate (lbs/hr)	Actual (tons/yr)	Potential (tons/yr)

Method used to determine entering emissions:

__ stack test __ vendor data __ material balance
__ emission factor __ other (specify): _____

Pollutant Output Information

Pollutant	CAS #	Outlet Temp.	Norm. Rate (lbs/hr)	Max. Rate (lbs/hr)	Actual (tons/yr)	Potential (tons/yr)

Method used to determine exiting emissions:

__ stack test __ vendor data __ material balance
__ emission factors __ other (specify): _____

Control Efficiency: ____ % Verified by: __ test __ calculations
Capture Efficiency: ____ % Verified by: __ test __ calculations

Final disposal of collected pollutants: _____

Conditions:

Total gas volume thru unit: _____acfm @ _____^{o}F and _____ %CO_2
Pressure Drop: _____ inches of water. Liquid recycle rate: _____gpm
Voltage: _____ Spark rate: _____ Milliamps: _____

Note: For particulate emissions, provide a particle size analysis (if available).

Cost Data**:**

Capital cost: _____ Installation cost:_____
Operating cost: _____(per year)